

## Claims

1. A method for processing a location information request in a location service, comprising:

A. a location information request initiator sending a location information request containing a processing indication to a location information request receiver; and

B. after receiving the location information request, the location information request receiver determining whether to perform synchronous processing or asynchronous processing for the location information request according to type of the processing indication, and then implementing corresponding processing for the location information request.

2. The method according to claim 1, wherein,

under the condition that the location information request receiver, in step B, determines to perform synchronous processing for the location information request according to type of the processing indication, the step of implementing corresponding processing for the location information request in step B comprises: after a LCS system locates the target UE, the location information request receiver sending a location information response containing locating result of the target UE to the location information request initiator.

3. The method according to claim 1, wherein,

under the condition that the location information request receiver, in step B, determines to perform asynchronous processing for the location information request according to type of the processing indication, step B comprises:

B1. the location information request receiver sending a location service response to the location information request initiator, and releasing the connection resource between itself and the location information request initiator;

B2. after receiving the location service response, the location information request initiator releasing the connection resource between itself and the location information request receiver; and

B3. after a LCS system locates the target UE, the location information request receiver reestablishing the connection between itself and the location information request

initiator, and then sending a LCS service result containing locating result of the target UE to the location information request initiator.

4. The method according to claim 1, wherein the type of the processing indication is determined according to type of a processing indication contained in a location information request received by the location information request initiator, or according to a parameter of quality of service contained in a location information request received by the location information request initiator, or according to address type of the location information request receiver, or according to any combinations of the above manners.

5. The method according to claim 1, wherein the location information request initiator is a LCS client, while the location information request receiver is an R-GMLC.

6. The method according to claim 1, wherein the location information request initiator is an R-GMLC, while the location information request receiver is an H-GMLC.

7. The method according to claim 1, wherein the location information request initiator is an H-GMLC, while the location information request receiver is a V-GMLC.